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ALABAMA DEPARTMENT OF TRANSPORTATION

THE GYRATORY SHALL BE IN COMPLIANCE WITH AASHTO T 312 BY AASHTO TP 71-09

The gyratory compactor shall be an electrohydraulic or electromechanical or electropneumatic compactor with a ram and ram heads as described in Section 4.3 OF AASHTO T 312. The gyratory compactor shall be capable of producing 150 mm (+/- 0.1 mm) diameter Hot Mix Asphalt specimens between 60 and 170 mm in height by compressing a specimen at 600 kPa (+/- 18 kPa) while gyrating the specimen 30 (+/-0.5) gyrations per minute at an internal angle of 20.2 ± 0.35 mrad {1.16 degrees (+/-0.02 degrees)} as measured by AASHTO TP 71-09 and shall record the specimen's height to the nearest 0.1 mm (minimum precision 0.1 mm) every gyration (at least once per gyration) during compaction. The compactor shall be mounted on swivel castors or like devices to insure compactor mobility within the laboratory. The compactor shall be furnished with the following minimum accessories: 500 specimen protector paper discs (150 mm diameter), two 150 mm diameter compaction molds (with bottom plates and top plates as required for each mold), at least one USB port for downloading data, and internal data storage (minimum 20 tests). The compactor shall come with a sample extruder. The compactor shall have the ability to add the shear value option at a later date.

The approved models which are in compliance with AASHTO T 312 by AASHTO TP 71-09 include:

PINE INSTRUMENTS CO (model AFG2A, {AFG2AS})

TROXLER (model 5850)